

fin pitch and in which air is supplied orthogonally to said heat transfer coils, is configured so as to satisfy the correlation expressed by the following numerical formula:

$$W_s \geq (1-0.16(6-N)) \times W_f / (2N+1)$$

wherein,  $W_s$  = width of a slit,  $W_f$  = width of a heat transfer fin, and  $N$  = the number of slit arrays / number of heat transfer fin units.--

Please replace the paragraph beginning at line 14, page 6, with the following clean copy text.

--The results indicate that the optimum relationship between slit width and slit spacing is one which satisfies the following numerical formula for a heat transfer fin configuration of 6 slits or less per width of one fin array:

$$W_s \geq (1-0.16(6-N)) \times W_f / (2N+1) \text{ --}$$

#### **In the claims**

Please amend claim 1 as follows:

1. (Twice Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration so as to satisfy the correlation expressed by the following numerical formula:

$$W_s \geq (1-0.1(6-N)) \times W_f / (2N+1)$$

where,  $W_s$  = width of each slit formed on said heat transfer fins,  $W_f$  = width of a heat transfer fin, and  $N$  = the number of slit arrays formed on said heat transfer fin / number of heat transfer fin units, and wherein  $N$  is equal to or less than 6.

2. (Twice Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch, and slits are formed on each plate-shaped heat transfer fin, and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration in which a width of each slit formed orthogonal to the air flow on each heat transfer fin is set within a range of 0.17 - 0.29 times a diameter of the heat transfer coils, wherein two slits formed in front of the heat transfer coil and two slits formed behind said heat transfer coil are arranged so there is a mutually different length in a direction perpendicular to the air flow, and wherein a cut profile of each of the two slits formed in front of the heat transfer coil and the two slits formed behind said heat transfer coil is parallel to the air flow.

3. (Twice Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch, and slits are formed on each plate-shaped heat transfer fin, and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration in which a spacing between slits formed on the heat transfer fins is set within a range of 0.18 - 0.5 times the diameter of the heat transfer coils, wherein two slits formed in front of the heat transfer coil and two slits formed behind said heat transfer coil are arranged so there is a mutually different length in a direction perpendicular to the air flow, and wherein a cut profile of each of the two slits formed in front of the heat transfer coil and the two slits formed behind said heat transfer coil is parallel to the air flow.

4. (Twice Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch, and slits are formed on

each plate-shaped heat transfer fin, and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration in which a width of each slit formed on each heat transfer fin is set within a range of 0.17 - 0.29 times a diameter of the heat transfer coils, and the spacing between slits formed on the heat transfer fins is set within a range of 0.18 - 0.5 times the diameter of the heat transfer coils, wherein two slits formed in front of the heat transfer coil and two slits formed behind said heat transfer coil are arranged so there is a mutually different length in a direction perpendicular to the air flow, and wherein a cut profile of each of the two slits formed in front of the heat transfer coil and the two slits formed behind said heat transfer coil is parallel to the air flow.

5. (Twice Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration such that within a plurality of slit arrays formed on a heat transfer fin, for a given slit array a slit formed on either edge of a heat transfer fin is partitioned into slits of different length, and a position at which the slit is partitioned is staggered on each of the two edges of the heat transfer fin, wherein a cut profile at the partitioned position of each of the two slits formed in front of the heat transfer coil and the two slits formed behind said heat transfer coil is parallel to the air flow.